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- ☐ 1: Biochem Biophys Res Commun. 1998 Apr 28;245(3):841-6.

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High affinity binding of oxidized LDL to mouse lectin-like oxidized LDL receptor (LOX-1).

Hoshikawa H, Sawamura T, Kakutani M, Aoyama T, Nakamura T, Masaki T.

Department of Pharmacology, Faculty of Medicine, Kyoto University, Japan.

We cloned mouse LOX-1 cDNA to take advantage of a gene-targeting technique to clarify the role of LOX-1 in vivo. Mouse LOX-1 was composed of 363 amino acids and had a C-type lectin domain type II membrane protein structure. Mouse LOX-1 had triple repeats of the sequence in the extracellular "Neck domain," which is unlike human and bovine LOX-1. LOX-1 bound oxidized LDL with two classes of binding affinity in the presence of serum. The binding component with the higher affinity showed the lowest value of K_d among the known receptors for oxidized LDL. In the absence of serum, the high affinity component disappeared, suggesting that an unknown co-factor in serum is essential for efficient uptake of oxidized LDL by endothelial cells. A low concentration of unlabeled oxidized LDL displaced ^{125}I -labeled oxidized LDL more efficiently in the presence of serum than in the absence of serum. The co-factor in the serum may be involved in the pathophysiology of atherosclerosis in addition to the oxidation of LDL.

PMID: 9588202 [PubMed - indexed for MEDLINE]



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